CLAIMS

1. A process for preparation of bisphosphonic acid, a compound of formula 1 or a salt thereof,

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Formula 1

comprising reacting a carboxylic acid compound of formula 2 or a salt thereof

Formula 2

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wherein,

A is a straight chain alkyl, a branched alkyl or a cyclic alkyl chain with up to 10 carbon atoms, which can optionally contain hetero atoms in between and, B is alkyl, aralkyl, aromatic or heteroaromatic group, which can be optionally substituted;



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wherein, R₁ and R₂ may be selected from hydrogen or straight chain, branched or cyclic lower alkyl,

with phosphorous acid and a phosphorous chloride selected from PCl₃, PCl₅ and POCl₃, in sulfolane.

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2. The process as claimed in claim 1, wherein the carboxylic acid is 4-aminobutyric acid and the bisphosphonic acid is alendronic acid.

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3. The process as claimed in claim 1, wherein the carboxylic acid is 3-aminopropionic acid and the bisphosphonic acid is pamidronic acid.

- 4. The process as claimed in claim 1, wherein the carboxylic acid is 3-pyridylacetic acid and the bisphosphonic acid is risedronic acid.
 - 5. The process as claimed in claim 1, wherein the carboxylic acid is 1-imidazolylacetic acid and the bisphosphonic acid is zoledronic acid.
- 10 6. The process as claimed in claim 1, wherein the carboxylic acid is N-(n-pentyl)-N-methyl-3-aminopropionic acid and the bisphosphonic acid is ibandronic acid.
 - 7. The process as claimed in claim 1, wherein the carboxylic acid is 2-(imidazo[1,2-a]pyridin-2-yl)ethanoic acid and the bisphosphonic acid is minodronic acid.
 - 8. The process as claimed in claim 1, wherein the carboxylic acid is 6-aminohexanoic acid and the bisphosphonic acid is neridronic acid.
- 9. The process as claimed in claim 1, wherein the carboxylic acid is 3-20 (dimethylamino)propionic acid and the bisphosphonic acid is olpadronic acid.

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